

Fig. 1 - N wavelength, bi-directional port switch with M connections

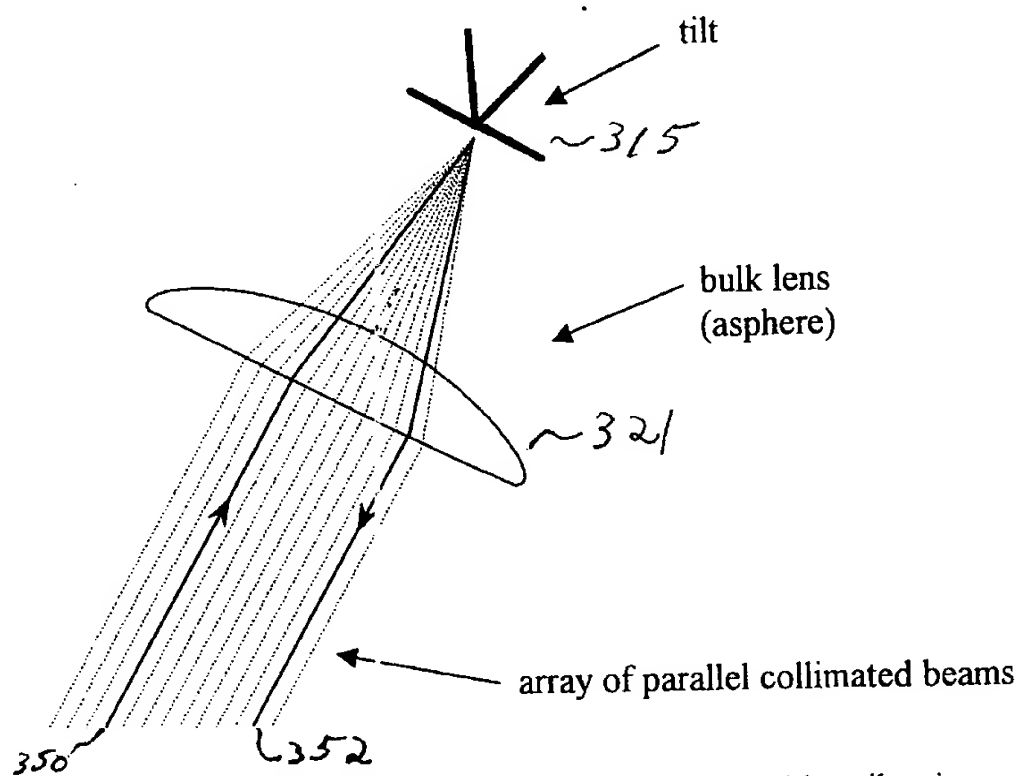


Fig. 2 - Reflected translation of a collimated beam with a tilt mirror

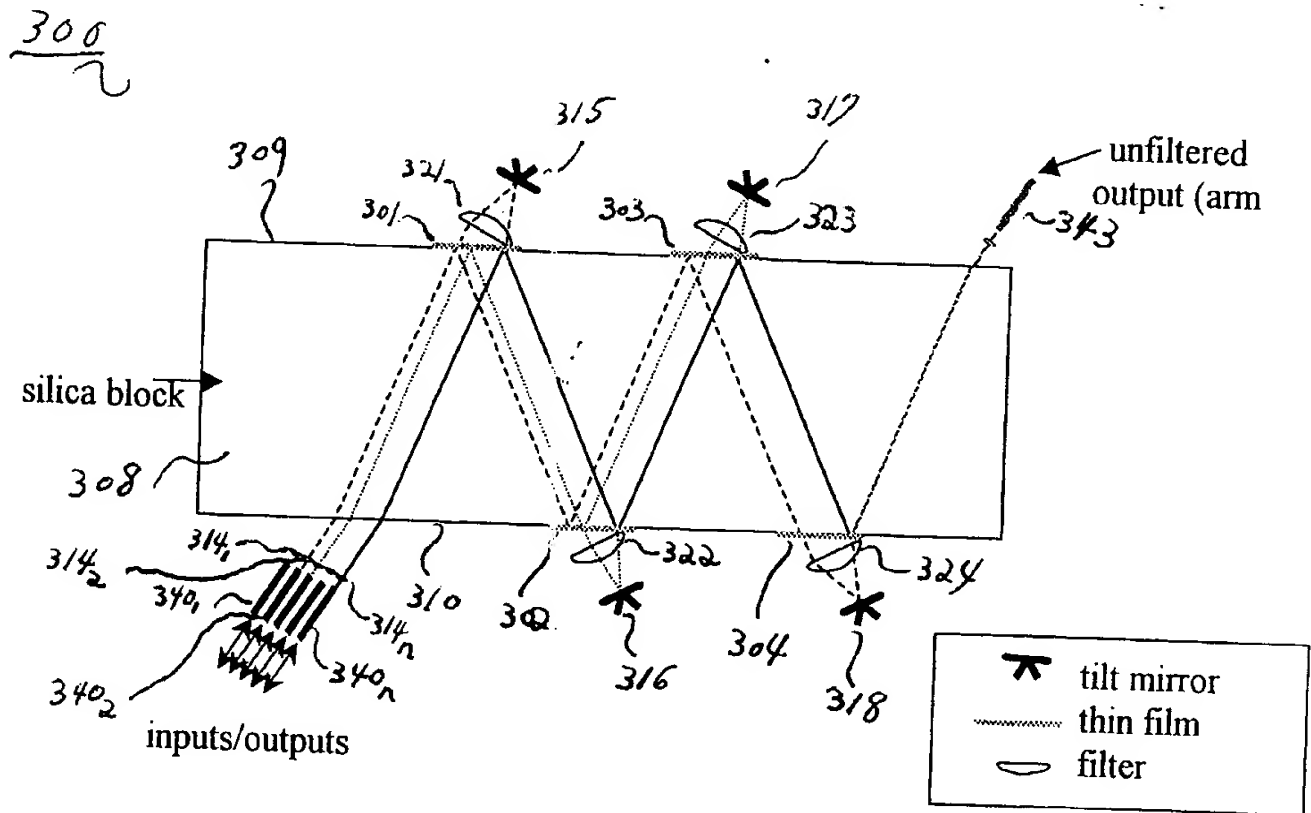


Fig. 3 - Bidirectional inputs/outputs with independent wavelength distribution

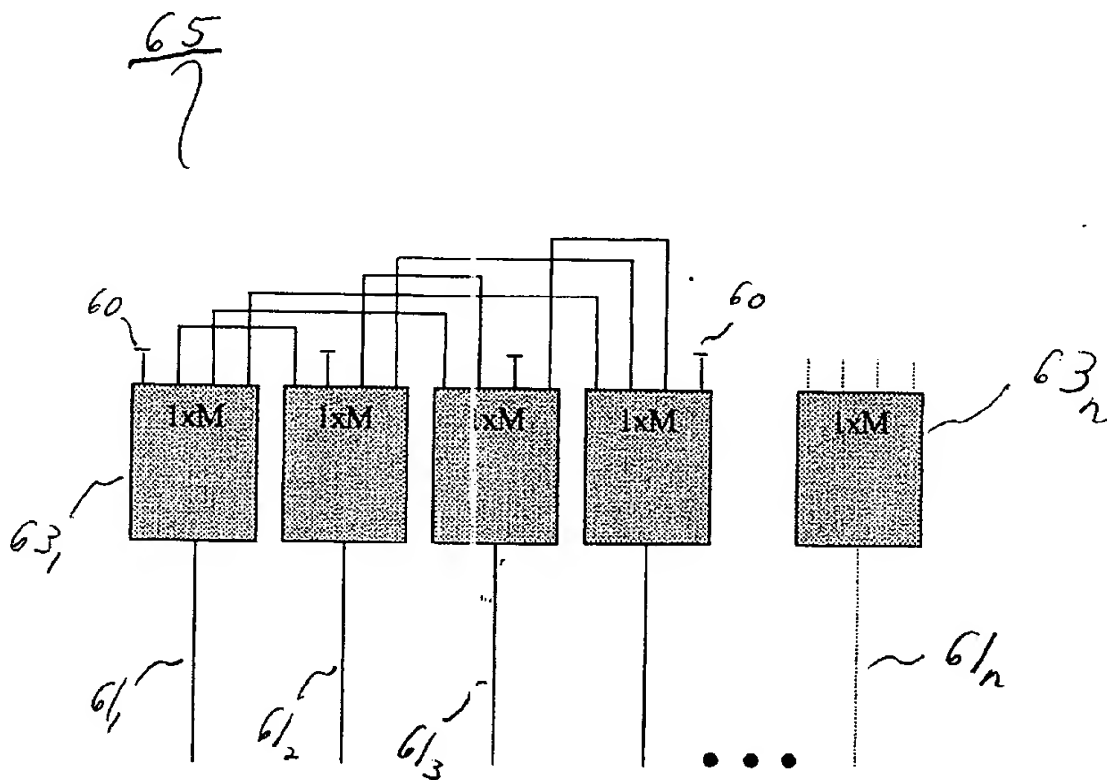


Fig. 4 – Switching fabric used in FIG. 1 to achieve desired functionality with conventional switches.

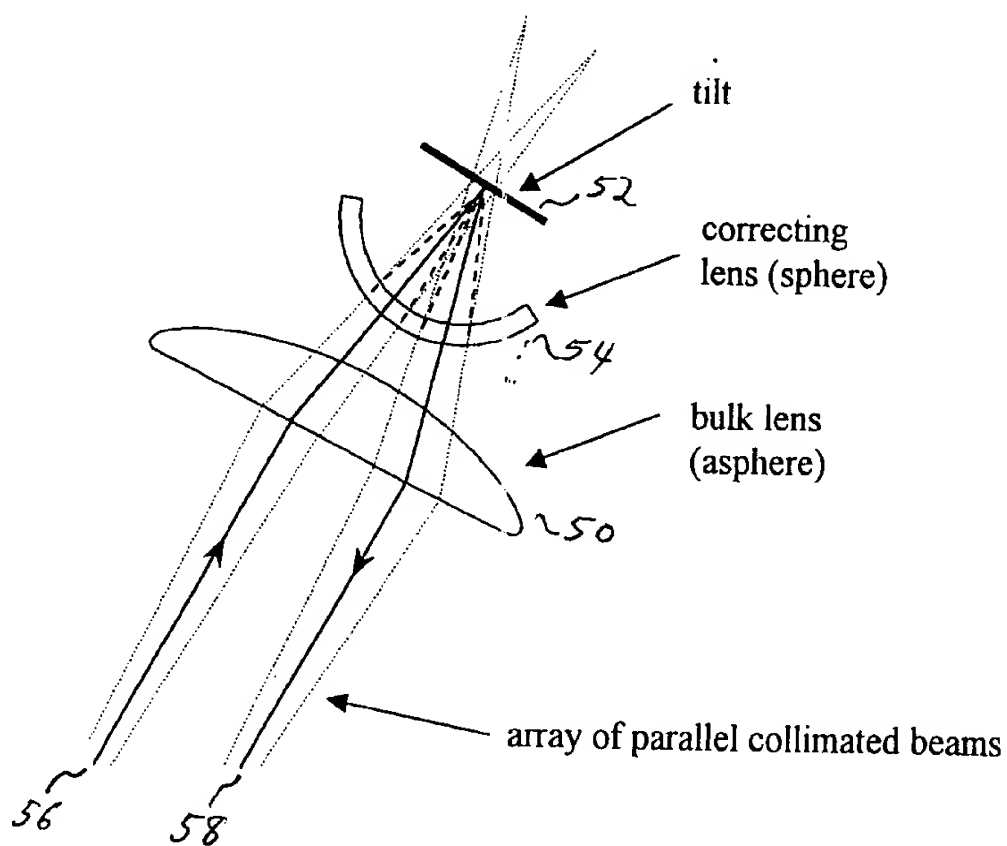


Fig. 5 - Corrected beam waist with a tilt

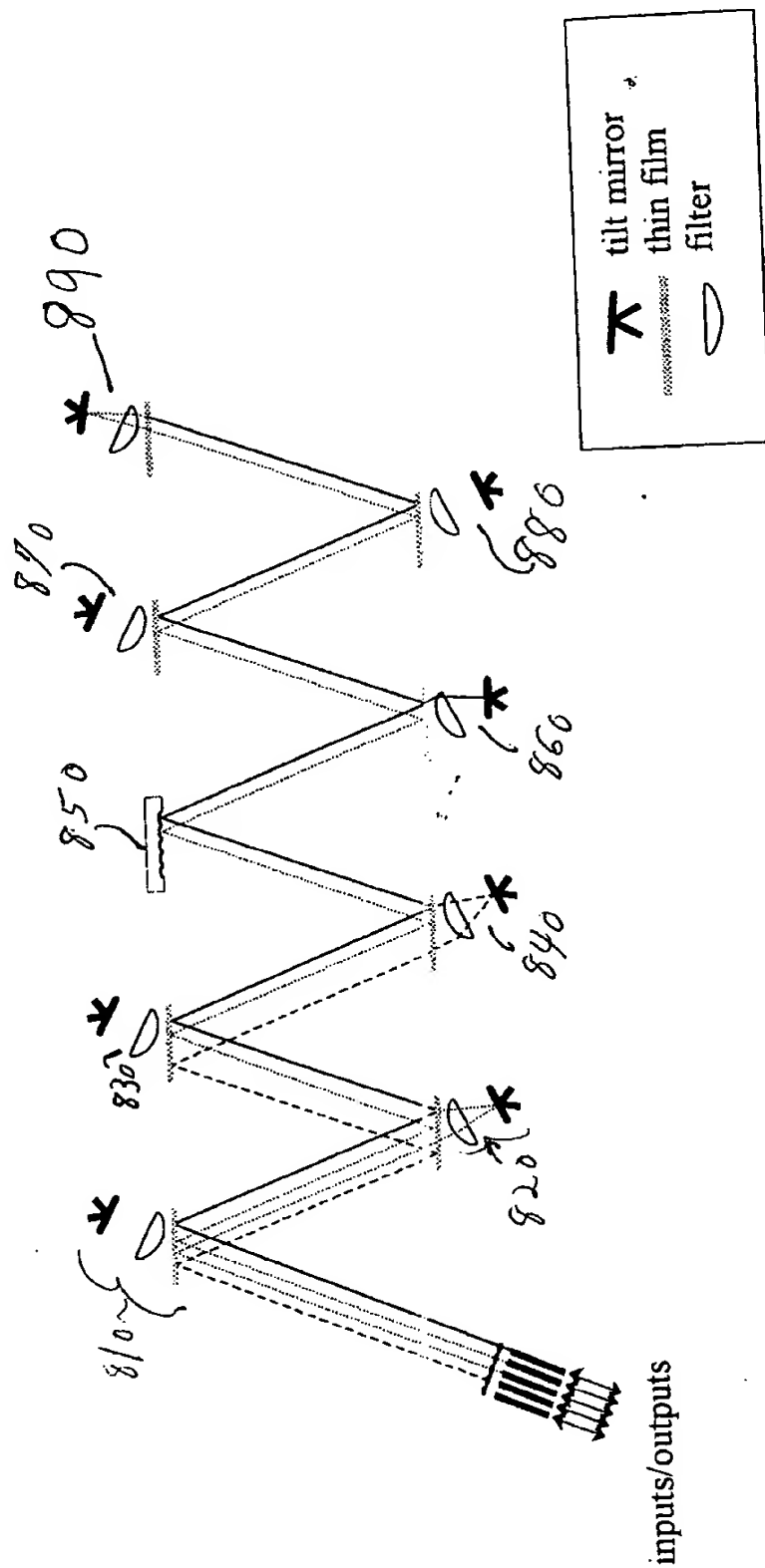


Fig. 8 - Extended wavelength fabric with beam recollimation

700

banding filter

turning prism

730

740

inputs/outputs

720

710

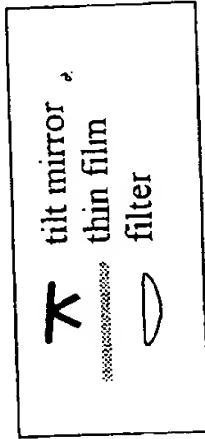
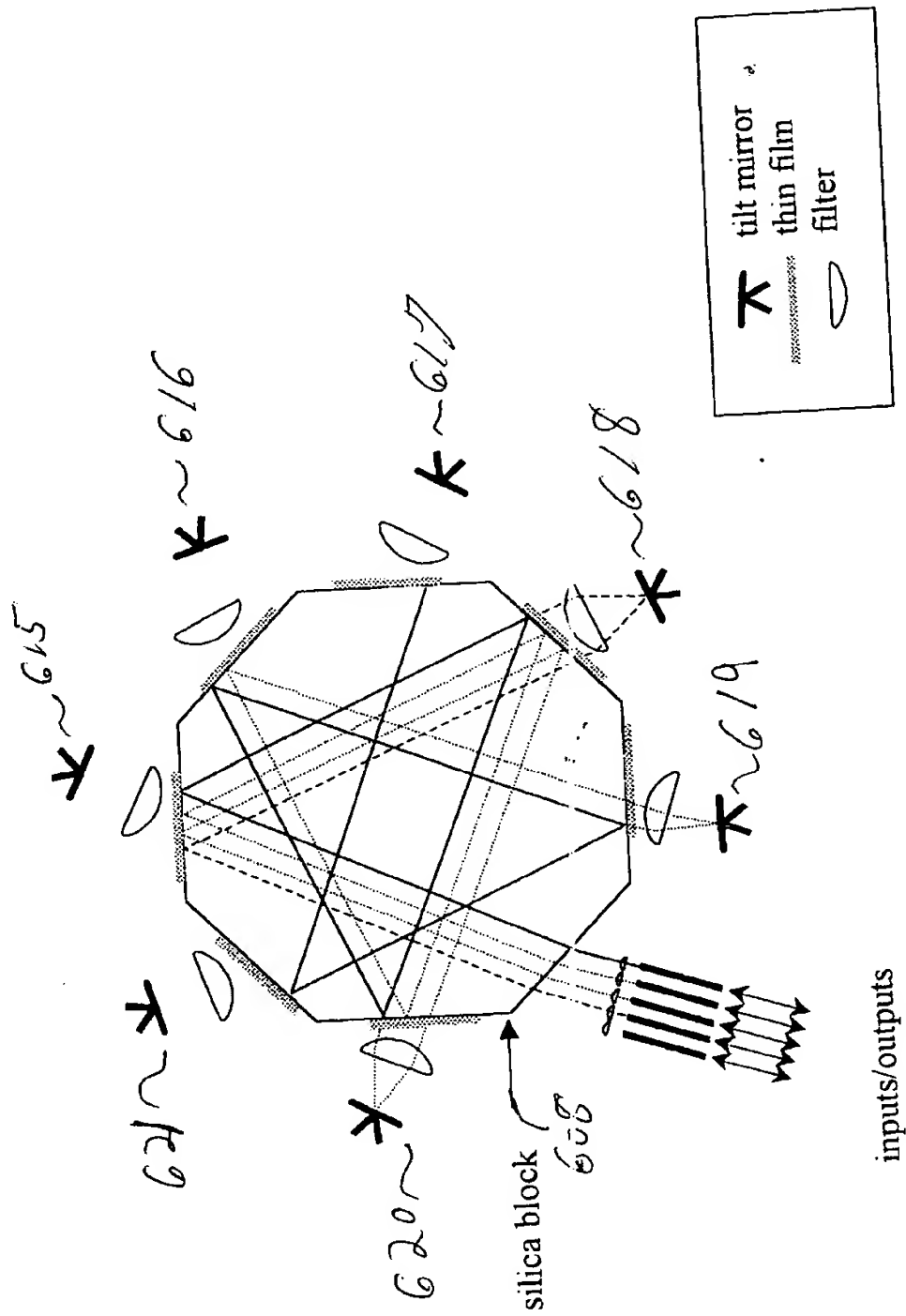


Fig. 7 - Extended wavelength fabric with banded structure



8
Fig. 8 - Bidirectional inputs/outputs with independent wavelength distribution in circular geometry